ADVANCE ADAPTERS INC.

P.O. Box 247, 4320 Aerotech Center Way
Paso Robles, CA 93447
Telephone: **(800) 350-2223** Fax: **(805) 238-4201**

P/N: 712531

Page Rev. Date: 11-07-07

SCOUT T19 4 SPEED TRANSMISSION TO FORD V8 & AMC 304 BELLHOUSING

KIT CONSISTS OF:

No.	Qty.	Part No.	Description
1.	1	711531	MODIFIED ADAPTER PLATE #712529
2.	1	716016	17 TOOTH T18 INPUT SHAFT
3.	14	716043	NEEDLE BEARINGS
4.	1	716174	FORD/AMC SPECIAL OD/.670 ID
5.	1	716732	SEAL *(National #471795)*
6.	4	723119	S.H.C.S. 5/16"-18 x 1-1/4" LONG
7.	2	724309	H.H.C.S. 7/16"-14 x 2"
8.	2	724328	H.H.C.S. 7/16"-14 x 1-1/4" LONG
9.	4	725026	F.H.S.C.S. 1/2"-13 x 1-1/2" LONG
10.	1	761019	FORD BEARING RETAINER
11.	1	JP001	JEEP INSTRUCTION MANUAL

INSTALLATION PROCEDURES:

Assemble new input shaft into the transmission making sure that the proper pilot bearing area is used. Some installations will require the use of the new needle bearings provided for the pocket area that fits over the main shaft. Some installations will also require a different synchronizer ring.

The four studs protruding from the front of the Scout T19 transmission will need to be removed for the new flat head cap screws. Before assembling the adapter plate to the front of the Scout transmission, you must install the two (2) 1-1/4" hex head bolts in the upper two bellhousing holes. When assembling the adapter plate to the transmission, make sure the seal properly fits over the ground surface of the input shaft. It may be necessary to cheat the seal location outward in order to obtain the correct location. You must use a silicone barrier to prevent oil leakage between the transmission face and adapter plate.

Bolt the new bearing retainer to the front of the adapter plate. This retainer may need shortening on certain installations that are using the high diaphragm type clutch assemblies. The shortening can be performed by removing the retainer and simply hack sawing it to the proper length.

A new input shaft must be installed. If you are using this kit on a T98 transmission, then the needle bearings inside the transmission input shaft will need to be changed, and you must install the 14 new bearings included. If the needle bearings are not changed, then the new input shaft will not fit onto the main shaft.

If this kit is being used on a T18 or T19 transmission, then the stock needle bearings will be retained. The T18/T19 transmissions also used two sizes of shifter synchronizer rings. If the transmission you have has a synchronizer ring that is too large, you will then be required to purchase P/N T98-83 from Border Auto Parts 619-461-0171.

The Scouts have used two different thicknesses of front bearings, our new input shaft requires a special narrow bearing. This bearing was found on some stock transmission applications. When your bearing while being installed on our input shaft does not allow the retaining snap ring to be installed on the input shaft, then you'll need to buy a new bearing, BCA # N-1308-LOB or AA P/N 761093.

The new two piece pilot bearing can now be installed into the engine crank. This added length will make sure that the tip of the input shaft has proper engagement with the pilot bushing.

SPECIAL NOTE: The components packaged in this kit have been assembled and machined for specific type of conversions. Modifications to any of the components will void any possible warranty or return privileges. If you do not fully understand modifications or changes that will be required to complete your conversion, we strongly recommend that you contact our sales department for more information. This instruction sheet is only to be used for the assembly of Advance Adapter components. We recommend that a service manual pertaining to your vehicle be obtained for specific torque values, wiring diagrams and other related equipment. These manuals are normally available at automotive dealerships and parts stores.

ADVANCE ADAPTERS INC.

P.O. Box 247, 4320 Aerotech Center Way
Paso Robles, CA 93447
Telephone: **(800) 350-2223** Fax: **(805) 238-4201**

P/N: 712531

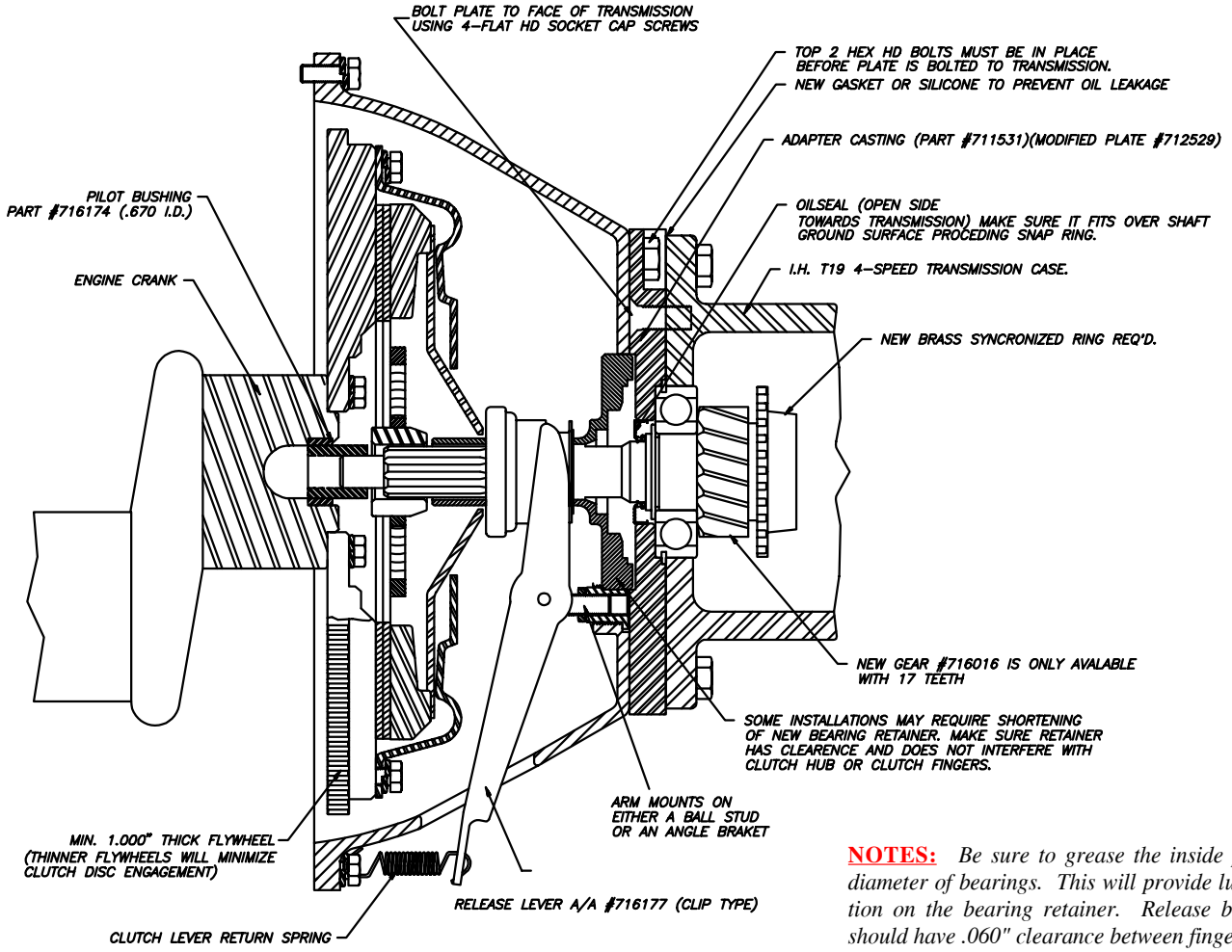
Page Rev. Date: 07-19-02

SCOUT T19 4 SPEED TRANSMISSION TO FORD V8 & AMC 304 BELLHOUSING

On Jeep vehicles that are retaining the original AMC 304 engine, can use the Jeep bellhousing used on T150 applications, 1976 through 1979. All of the original Jeep release arm and release bearing can be retained. The pilot bushing will need to be a special #716156 that has the 716148 pressed into it. This will extend the tip far enough out to reach the new input shaft.

11" CLUTCH ITEMS:
11" Clutch Pressure Plate #CF260000 or #CF360049
11" Clutch Disc #381021 *(1-1/16"-10 splines)*
Clutch Release Bearing #N1714 *(Ford)* or #N1439 *(Clip)*

10" CLUTCH ITEMS:
10" Clutch Pressure Plate #CF360030
10" Clutch Disc #281226 *(1-1/16"-10 splines)*
Release Bearing #N1439 *(Clip)* or #N1714 *(Fork)*


BOLT PLATE TO FACE OF TRANSMISSION USING 4-FLAT HD SOCKET CAP SCREWS
TOP 2 HEX HD BOLTS MUST BE IN PLACE BEFORE PLATE IS BOLTED TO TRANSMISSION.
NEW GASKET OR SILICONE TO PREVENT OIL LEAKAGE
ADAPTER CASTING (PART #711531)(MODIFIED PLATE #712529)
PILOT BUSHING PART #716174 (.670 I.D.)
OILSEAL (OPEN SIDE TOWARDS TRANSMISSION) MAKE SURE IT FITS OVER SHAFT GROUND SURFACE PROCEDING SNAP RING.
ENGINE CRANK
I.H. T19 4-SPEED TRANSMISSION CASE.
NEW BRASS SYNCRONIZED RING REQ'D.
NEW GEAR #716016 IS ONLY AVALABLE WITH 17 TEETH
SOME INSTALLATIONS MAY REQUIRE SHORTENING OF NEW BEARING RETAINER. MAKE SURE RETAINER HAS CLEARENCE AND DOES NOT INTERFERE WITH CLUTCH HUB OR CLUTCH FINGERS.
ARM MOUNTS ON EITHER A BALL STUD OR AN ANGLE BRAKET
MIN. 1.000" THICK FLYWHEEL (THINNER FLYWHEELS WILL MINIMIZE CLUTCH DISC ENGAGEMENT)
RELEASE LEVER A/A #716177 (CLIP TYPE)
CLUTCH LEVER RETURN SPRING

NOTES: *Be sure to grease the inside pocket diameter of bearings. This will provide lubrication on the bearing retainer. Release bearing should have .060" clearance between fingers and face of bearing. Clutch disc should have .030" clearance between flywheel and disc when fully disengaged.*

SPECIAL NOTE: The components packaged in this kit have been assembled and machined for specific type of conversions. Modifications to any of the components will void any possible warranty or return privileges. If you do not fully understand modifications or changes that will be required to complete your conversion, we strongly recommend that you contact our sales department for more information. This instruction sheet is only to be used for the assembly of Advance Adapter components. We recommend that a service manual pertaining to your vehicle be obtained for specific torque values, wiring diagrams and other related equipment. These manuals are normally available at automotive dealerships and parts stores.